ATTACHMENT J9

Reno/Tahoe IAP (ANG) Electric Distribution System

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J9 Reno/Tahoe IAP (ANG) Electric Distribution System

J9.1 Reno/Tahoe IAP (ANG) Overview

J9.2 Electric Distribution System Description

The Reno/Tahoe IAP, Nevada Air National Guard, 152nd Airlift Wing is located at the Reno/Tahoe International Airport (RTIA) in Reno, Nevada. The base is located on the southwest side of RTIA on a 60 acre parcel. The base has 37 buildings; 13 administrative, 23 industrial, and 1 services, amounting to approximately 302,000 square feet. Day-to-day activities are managed by a force of 250 full-time personnel. One weekend per month this population swells to more than 1100 members during military training assemblies. The base has no residential or transient housing facilities. The RTIA is located four miles southeast of the Reno central business district. Reno has been the regional ANG center for northern Nevada for over one hundred years. On June 30, 1954 the Nevada ANG entered into a 100-year lease agreement with the City of Reno for use of land at the Reno Airport, today known as the Reno/Tahoe International Airport. The lease was later assumed by the Airport Authority of Washoe County. Over the years, the Nevada ANG has funded numerous airport improvements that have benefited the community and facilitated commercial airline expansion at the airport. Currently, more than \$33 million per year goes into the local economy as a result of Nevada ANG salaries and local purchases. The history of Nevada ANG is one of growth, change, and vigilance. In early 1995, they began converting from the RF-4C fighter aircraft to the C-130 Hercules transport aircraft. The mission of the 152nd Airlift Wing is to train, equip, and maintain units and individuals to meet worldwide requirements for federal day-to-day and mobilization missions and state emergencies.

J9.2.1 Electric Distribution System Fixed Equipment Inventory

The Reno/Tahoe IAP (ANG) electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, protective devices, utility poles, switches, and other ancillary fixed equipment. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

- Airfield lighting
- Parking lot lights

- Street lights
- Ballfield lights

J9.2.1.1 Description

Electrical power enters the base at a single location at 25 kV and is stepped down to 4160 volts and metered (See J9.4 for details). The configuration is a looped system distributed at 4160 volts. It runs overhead and underground and services 37 facilities. The system consists of primary and secondary distribution lines (approximately 6,300 linear feet of overhead primary, 2,800 linear feet of overhead secondary, and 13,300 linear feet underground primary); 24 single-phase transformers ranging from 15 to 100 kVA; 14 3-phase transformers ranging from 75 to 750 kVA; 46 air line switches; 29 wooden utility poles 30 to 45 feet tall; four pre-cast concrete manholes; and one pad-mounted 3-way switch. There are no substations, switching gear, or unique components associated with this system. The system capacity is adequate to meet current and future demands.

J9.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Reno/Tahoe IAP (ANG) electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Reno/Tahoe IAP (ANG)

| Item | Size | Quantity | Unit | Annuavimata Vaan |
|-----------------------------|------|----------|-------|----------------------------------|
| Item | Size | Quantity | Ullit | Approximate Year of Construction |
| Underground Circuits | AWG | | | |
| 3ph, 3w, 4000v in conduit | #1/0 | 137 | LF | 1989 |
| 3ph, 3w, 4000v in conduit | #1/0 | 405 | LF | 1985 |
| 3ph, 3w, 4000v in conduit | #1/0 | 1068 | LF | 1977 |
| 3ph, 3w, 4000v in conduit | #1/0 | 135 | LF | 1976 |
| 3ph, 3w, 4000v in conduit | #1/0 | 625 | LF | 1972 |
| 3ph, 3w, 4000v in conduit | #1/0 | 720 | LF | 1970 |
| 3ph, 3w, 4000v in conduit | #1/0 | 540 | LF | 1968 |
| 3ph, 3w, 4000v in conduit | #1/0 | 2250 | LF | 1968 |
| 3ph, 3w, 4000v in conduit | #1/0 | 170 | LF | 1980 |
| 3ph, 3w, 4000v in conduit | #1/0 | 140 | LF | 1984 |
| 3ph, 3w, 4000v in conduit | #1/0 | 625 | LF | 1993 |
| 3ph, 3w, 4000v in conduit | #2CU | 260 | LF | 1997 |
| 3ph, 3w, 4000v in conduit | #2CU | 325 | LF | 1999 |
| 3ph, 3w, 4000v in conduit | #4CU | 675 | LF | 1964 |
| 3ph, 3w, 4000v in conduit | #4CU | 620 | LF | 1959 |
| 3ph, 3w, 4000v in conduit | #4CU | 130 | LF | 1957 |

| Item | Size | Quantity | Unit | Approximate Year of Construction |
|----------------------------|------|----------|------|----------------------------------|
| 3ph, 3w, 4000v in conduit | #4CU | 4430 | LF | 1955 |
| Overhead Circuits | | | | |
| 3ph, 3w, conductor | #4CU | 485 | LF | 1976 |
| 3ph, 3w, conductor | #4CU | 540 | LF | 1972 |
| 3ph, 3w, conductor | #4CU | 720 | LF | 1970 |
| 3ph, 3w, conductor | #4CU | 458 | LF | 1966 |
| 3ph, 3w, conductor | #4CU | 115 | LF | 1962 |
| 3ph, 3w, conductor | #4CU | 252 | LF | 1960 |
| 3ph, 3w, conductor | #4CU | 635 | LF | 1959 |
| 3ph, 3w, conductor | #4CU | 100 | LF | 1959 |
| 3ph, 3w, conductor | #4CU | 600 | LF | 1957 |
| 3ph, 3w, conductor | #4CU | 2,385 | LF | 1955 |
| 3ph, 3w, weatherproof drop | #2 | 180 | LF | 1977 |
| 3ph, 3w, weatherproof drop | #2 | 40 | LF | 1976 |
| 3ph, 3w, weatherproof drop | #2 | 60 | LF | 1970 |
| 3ph, 3w, weatherproof drop | #2 | 50 | LF | 1966 |
| 3ph, 3w, weatherproof drop | #2 | 45 | LF | 1962 |
| 3ph, 3w, weatherproof drop | #2 | 2,446 | LF | 1955 |
| 3 Phase Transformers | kVA | | | |
| Oil-filled, pad-mounted | 75 | 1 | EA | 1985 |
| Oil-filled, pad-mounted | 150 | 1 | EA | 1988 |
| Oil-filled, pad-mounted | 300 | 1 | EA | 1977 |
| Oil-filled, pad-mounted | 300 | 1 | EA | 1976 |
| Oil-filled, pad-mounted | 300 | 1 | EA | 1993 |
| Oil-filled, pad-mounted | 500 | 1 | EA | 1966 |
| Oil-filled, pad-mounted | 500 | 3 | EA | 1977 |
| Oil-filled, pad-mounted | 500 | 1 | EA | 1968 |
| Oil-filled, pad-mounted | 500 | 1 | EA | 1990 |
| Oil-filled, pad-mounted | 500 | 1 | EA | 1960 |
| Oil-filled, pad-mounted | 500 | 1 | EA | 1998 |
| Oil-filled, pad-mounted | 750 | 1 | EA | 1978 |
| Oil-filled, pad-mounted | 750 | 1 | EA | 1994 |
| | | | | |

| Item | Size | Quantity | Unit | Approximate Year of Construction |
|---|----------------------|----------|------|----------------------------------|
| 1-Phase Transformers | kVA | | | |
| Pole mounted | 15 | 6 | EA | 1962 |
| Pole mounted | 15 | 3 | EA | 1976 |
| Pole mounted | 37.5 | 3 | EA | 1970 |
| Pole mounted | 75 | 3 | EA | 1955 |
| Pole mounted | 75 | 3 | EA | 1962 |
| Pole mounted | 75 | 3 | EA | 1970 |
| Pole mounted | 100 | 3 | EA | 1966 |
| Utility Poles – Wood | Height (Ft) | | | |
| | 30 | 6 | EA | 1955 |
| | 40 | 4 | EA | 1960 |
| | 40 | 4 | EA | 1997 |
| | 45 | 9 | EA | 1955 |
| | 45 | 2 | EA | 1959 |
| | 45 | 1 | EA | 1970 |
| | 45 | 3 | EA | 1976 |
| $Switches-Underground\ (pad-mounted,\\5kVA/600A)$ | 3-Way | 1 | EA | 1997 |
| Switches – Overhead Line | | | | |
| - Fused with lighting arrest | 600 A-L | 42 | EA | 1993 |
| - Air Lines Switches | 600 A-L | 4 | EA | 1993 |
| Electric Meters | 3phase, watt/hour | 18 | EA | Various |
| Manholes (Precast concrete 4x6x6) | | 4 | EA | 1993 |

Notes:

AWG = American Wire Gauge

EA = each

LF = linear feet

 $KVA = nominal \ kilovolt\text{-}amperes$

Ph-phase

V = volts

W = wire

J9.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts

Electric Distribution System Reno/Tahoe IAP (ANG)

| Qty | Item | Make/Model | Description | Remarks |
|------|---|--------------------------|-------------|---------|
| None | | | | |
| | Vehicles and Tools ribution System R | s eno/Tahoe IAP (ANG) | | |
| D | escription | Quantity | Location | Maker |

None

J9.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4

Manuals, Drawings, and Records Electric Distribution System Reno/Tahoe IAP (ANG)

| Qty | Item | Remarks |
|-----|--|----------------------------|
| 1 | Electrical Utility System Maps (Electronic Copy) | AutoCAD Release Version 14 |

J9.3 Specific Service Requirements

The service requirements for the Reno/Tahoe IAP (ANG) electric distribution system are as defined in the Section C, Description/Specifications/Work Statement. The following requirements are specific to the Reno/Tahoe IAP (ANG) electric distribution system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C: None.

J9.4 Current Service Arrangement

• Provider Name: Sierra Pacific Power Company

• Average Annual Usage: 3,894 mWh/year

• Maximum Monthly Use: 386 mWh/month

• Minimum Monthly Use: 262 mWh/month

 Sierra Pacific Power Company (SPPC) owns approximately 110 LF of main distribution service line that enters underground at south base fence south of National Guard Way. The service runs parallel and 15 feet east of the west base fence to a 750 kVA pad mounted transformer (owned by SPPC) and then approximately 20 feet underground to the SPPC owned utility pole and then rises 40 feet up the pole to SPPC master metering hardware on the lower cross arm.

J9.5 Secondary Metering

J9.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J9.6 below.

TABLE 5Existing Secondary Meters
Electric Distribution System Reno/Tahoe IAP (ANG)

| Meter Location | Meter Description |
|--|--------------------|
| Bldg 9 – Hangar (low meter) | 3-Phase, Watt-Hour |
| Bldg 9 – Hangar (high meter) | 3-Phase, Watt-Hour |
| Bldg 10 – Supply | 3-Phase, Watt-Hour |
| Bldg 12 – Fire House | 3-Phase, Watt-Hour |
| Bldg 13 – Motor Pool | 3-Phase, Watt-Hour |
| Bldg 56 – Headquarters | 3-Phase, Watt-Hour |
| Bldg 61 – Metals | 3-Phase, Watt-Hour |
| Bldg 76 – Avionics | 3-Phase, Watt-Hour |
| Bldg 78 – Security | 3-Phase, Watt-Hour |
| Bldg 82 – Engine Shop | 3-Phase, Watt-Hour |
| Bldg 84 – Operations | 3-Phase, Watt-Hour |
| Bldg 88 – Civil Engineering | 3-Phase, Watt-Hour |
| Bldg 90 – Telecommunications | 3-Phase, Watt-Hour |
| Bldg 101 – RUBB Bldg | 3-Phase, Watt-Hour |
| Bldg 111 – MedDine | 3-Phase, Watt-Hour |
| Bldg 112 – Intelligence | 3-Phase, Watt-Hour |
| Bldg 116 Photo Interpretation Facility | 3-Phase, Watt-Hour |
| Engine Test Cell (no bldg number) | 3-Phase, Watt-Hour |

J9.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13 Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J9.6 below.

Meter Location Meter Description

None

J9.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

- 1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
- 2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
- 3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters. The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.
- 4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J9.7 Energy Saving Projects

IAW Paragraph C.3 Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J9.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Reno/Tahoe IAP (ANG) boundaries.

J9.9 Off-Installation Sites

No off-installation sites are included in the sale of the Reno/Tahoe IAP (ANG) electric distribution system.

J9.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7

Service Connections and Disconnections Electric Distribution System Reno/Tahoe IAP (ANG)

Location Description

None

J9.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Reno/Tahoe IAP (ANG) electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and Replacement projects will be recovered through Sub-CLIN AB.

Project Description

TABLE 8

System Deficiencies
Electric Distribution System Reno/Tahoe IAP (ANG)

Project Location

None